

CLAIMS

1. A non-crosslinked flame-retardant resin composition comprising

(A) a non-crosslinked base resin which includes a propylene resin containing 50 wt% or more of propylene monomer, the non-crosslinked base resin containing:

- (B) a metallic hydrate;
- (C) a hindered phenolic antioxidant;
- (D) a sulfurous antioxidant; and
- (E) a metallic oxide.

2. The non-crosslinked flame-retardant resin composition according to claim 1, wherein 100 part weight of (A) the non-crosslinked base resin contains:

30-200 part weight of (B) the metallic hydrate;  
0.5-10 part weight of (C) the hindered phenolic antioxidant;

0.5-20 part weight of (D) the sulfurous antioxidant;  
and

0.5-20 part weight of (E) the metallic oxide.

3. The non-crosslinked flame-retardant resin composition according to any one of claims 1 and 2, wherein (D) the sulfurous antioxidant is an imidazole compound.

4. The non-crosslinked flame-retardant resin composition according to any one of claims 1 to 3, wherein (E) the metallic oxide is an oxide of at least one metal selected from zinc (Zn), aluminum (Al), magnesium (Mg),

lead (Pb) and tin (Sn).

5. The non-crosslinked flame-retardant resin composition according to any one of claims 1 to 4, wherein (B) the metallic hydrate is one of magnesium hydroxide and aluminum hydroxide.

6. A non-halogenous insulated wire comprising a conductor covered with the non-crosslinked flame-retardant resin composition according to any one of claims 1 to 5.

7. A wiring harness comprising:

one of a single wire bundle consisting only of the non-halogenous insulated wires according to claim 6, and a mixed wire bundle consisting at least of the non-halogenous insulated wires according to claim 6 and vinyl chloride insulated wires; and

a wiring-harness protective material for covering the wire bundle, in which one of a non-halogenous resin composition, a vinyl chloride resin composition, and a halogenous resin composition other than the vinyl chloride resin composition is used as a base material.